



TAILGATE CHECKLIST

Please mark the box for each item as you complete it and fill in notes section as needed. For additional questions, please contact the Translab at (916) 227-7230.

STEP 1: REMOVING CONCRETE SLABS

NIGHT WORK

- ☐ A. Prepare yourself and your staff for night work, if necessary
- ☐ B. Provide adequate lighting for night work

DETERMINE EXACT LIMITS OF CONCRETE PAVEMENT REMOVAL

- ☐ A. Locate and clearly mark or number slabs to be removed

PRE-SAWING SLABS, ISOLATE THE AREA

- ☐ A. When planning to pre-cut concrete slabs:
 1. Review the existing condition of the slabs to determine whether the pre-cut slab will hold up under traffic until it is replaced
 2. Avoid keeping the pre-cut area open to traffic for more than 2 days, as this will cause more pavement deterioration
 3. Slabs may have to be cut in the same shift they are replaced
- ☐ B. Core to determine saw cut depth and quantity
- ☐ C. Outline of concrete to be removed shall be sawed full depth with a power driven saw
- ☐ D. Cut slab to sizes that can be lifted with selected equipment
 1. Remove the concrete in rectangular sections to simplify concrete removal
 2. Do not make notches or diagonal cuts in the pavement
 3. Water residue from concrete cutting shall be vacuumed immediately

CONCRETE PAVEMENT REMOVAL

- ☐ A. Non-impact liftout method
 1. Each slab shall be removed in one or more sections without disturbance or damage to the underlying base or the surrounding pavement that remains in place
 2. Slabs can be pre-sawed prior to the night of removal and replacement
 3. DO NOT drop concrete onto the existing base when lifting out
- ☐ B. Possible problems during removal
 1. Slab is thicker than shown on the plans and pre-sawing did not reach full depth
 2. Water is present under the slab when concrete is removed
(Use shop vac to remove water)
 3. Slabs shatter when lifted
 4. Lift pins fail to hold PCC pavement section (redrill hole)

Notes:



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STEP 2: PREPARING BASE AND PAVEMENT JOINTS

BOND BREAKER

- ☐ A. Suitable plastic sheeting, 6 mil thick, shall be placed between the replacement pavement and the base for full-depth repairs; for full-depth and treated base repairs, suitable plastic sheeting shall be placed on the subgrade or subbase layer immediately prior to concrete placement
- ☐ B. Repair damage to base with cold patch. Damaged areas that are 1" or deeper need to be filled to make a level base

Notes:

CONTACT JOINTS

- ☐ A. Transverse or crosswise contact joints
 1. The expansion material shall be secured to the face of the existing pavement joint by any method that will hold the expansion material securely in place during concrete placement; concrete shall not be allowed to get between the expansion material and existing PCC pavement
 2. A 6-mm- (1/4-in-) thick foam expansion material must be placed securely across the transverse joint face and extend the full depth of the joint, with the top of the expansion material flush with the top of the pavement
- ☐ B. Longitudinal or lengthwise contact joints
 1. Expansion materials are not required along the longitudinal contact joint for isolated pavement slab repairs
 2. Expansion material used along longitudinal contact joints must be placed securely across the entire length of the joint and extend the full depth, with the top of the expansion material flush with the top of the pavement joint
 3. Expansion material along each of the joints must meet at the slab corners without any gap

STEP 3: SELECTING CONCRETE

CONCRETE MIX QUANTITY FORMULA

$$\text{Quantity} = \frac{\text{Slab Length} \times \text{Slab Width} \times \text{Slab Depth}}{27} + 10\%$$

Notes:

CONCRETE MIX PROPERTIES

- ☐ A. 400 PSI flexural strength at the time of opening to traffic
- ☐ B. 30 minutes workability after concrete comes down the chute

CONCRETE MIX TICKET ITEMS

- ☐ A. 8 - 8.5 sacks of cement per cubic yard
- ☐ B. 0.3 - 0.35 : 1 water cement ratio
- ☐ C. A super plasticizer
- ☐ D. A set retarder
- ☐ E. An accelerator

If you have any questions regarding the concrete specification contact Doran Glauz, Senior Concrete Specialist at the Translab. He can be reached at (916) 227-7272.



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